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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,544	08/25/2003	Alexandros Makriyannis	UCONAP/207/US	3121
2543 759	90 09/14/2004		EXAMINER	
ALIX YALE & RISTAS LLP			AULAKH, CHARANJIT	
750 MAIN STR SUITE 1400	EET		ART UNIT	PAPER NUMBER
HARTFORD, (CT 06103		1625	
			DATE MAILED: 09/14/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	`	10/647,544	MAKRIYANNIŞ ET AL.				
Office Act	ion Summary	Examiner	Art Unit				
	_	Charanjit S. Aulakh	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATTHE MAILING DATE Extensions of time may be a after SIX (6) MONTHS from If the period for reply specification of the period for reply is specification.	OF THIS COMMUNICATION vailable under the provisions of 37 CFR 1 the mailing date of this communication. It is also be seen that the mail that the seen that the mail that the seen that	LY IS SET TO EXPIRE 3 MONTH(136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONEI ing date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) Responsive to c	communication(s) filed on 21	July 2004.					
2a) ☐ This action is FI	, —	is action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims			•				
4a) Of the above 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-31</u> is 7) ☐ Claim(s)		thdrawn from consideration.					
Application Papers							
9) ☐ The specification	is objected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
''	• • •	e drawing(s) be held in abeyance. See	• •				
•	• ' '	ection is required if the drawing(s) is ob Examiner. Note the attached Office	•				
Priority under 35 U.S.C.	§ 119						
a) All b) Sor 1. Certified c 2. Certified c 3. Copies of application	ne * c) None of: copies of the priority documer copies of the priority documer the certified copies of the pri n from the International Bure	nts have been received in Applicati iority documents have been receive	on No ed in this National Stage				
· ===	Patent Drawing Review (PTO-948) atement(s) (PTO-1449 or PTO/SB/0	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

- 1. According to a preliminary amendment filed on Aug. 25, 2003, the applicants have canceled claims 33 and 35-40.
- 2. Claims 1-32 and 34 are now pending in the application. Claims 32 and 34 are withdrawn from further consideration as being directed to non-elected subject matter.
- 3. Applicant's election of group IV in paper filed on July 21, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse; see MPEP 818.03(a).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1-31, the values of all variables defined as ----comprising ---- is indefinite since it is not clear whether these substituents are attached directly or indirectly to the tricyclic ring system. The applicants are suggested to amend the claims to specifically define the values of all variables.

In claim 1, it is not clear what is being used to excite the cannabinoid compound? Also, is this method in vivo method or in vitro method?

In claims 3, 4 and 20, the values of variables X, Z, R2, R3, R4 and R5 are not defined.

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In claim 3, the value of variable Y defined as ---electron rich element --- is indefinite since this element is not defined.

In claim 17, the term --- sample --- is indefinite since its meaning is not clear.

In claims 18 and 19, the term ---interacting --- is indefinite since its meaning is not clear.

Also, which receptor subtype is being interacted?

In claim 20, it is not clear how the fluorescent property is detected?

Claim 1 provides for the use of fluorescent cannabinoid compound, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

7. Claim 1 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966). 8. Claims 1-31 are objected as containing non-elected subject matter.

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Allowable Subject Matter

9. The following is a statement of reasons for the indication of allowable subject matter: The instant compounds directed to the elected group IV are allowable over the prior art since they are neither disclosed nor obvious over the prior art. In the prior art, Rhee (J. Med. Chem., cited on applicants form 1449) discloses cannabinoid derivatives which are closely related to the instant compounds. However, the closely related compounds 8a and 8b (see scheme 1 on page 3229) disclosed by Rhee differ from the instant compounds in having an alkyl group or an aryl group instead of nitrogen (variable Y in the instant compounds) atom attached to the tricyclic ring and furthermore, there is no teaching, suggestion or motivation in the prior art to modify the compounds of Rhee to prepare the instant compounds.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Charanjit S. Aulakh Primary Examiner Art Unit 1625